

Safety Data Sheet DMS-E12 Date of issue: 11/13/2014 Version

Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Substance	
Physical state	: Liquid	
Substance name	: EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE	
Product code	: DMS-E12	
Synonyms	: GLYCIDOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE;	
	POLY(DIMETHYLSILOXANE), 2,3-EPOXYPROPYL) PROPYL ETHER TERMINATED	
Chemical family	: EPOXYSILOXANE	
	ance or mixture and uses advised against	
Use of the substance/mixture	: Chemical intermediate For research and industrial use only	
1.3. Details of the supplier of the safety da	ata sheet	
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 Al info@gelest.com 1.4. Emergency telephone number	M - 5:30 PM EST	
0,1	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mix	xture	
Classification (GHS-US)		
Skin Irrit. 2 H315		
Eye Irrit. 2A H319		
Full text of H-phrases: see section 16		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS07	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	: H315 - Causes skin irritation	
Precautionary statements (GHS-US)	 H319 - Causes serious eye irritation P280 - Wear protective gloves/protective clothing/eye protection/face protection P264 - Wash hands thoroughly after handling P302+P352 - If on skin: Wash with plenty of water P332+P313 - If skin irritation occurs: Get medical advice/attention P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse 	
2.3. Other hazards		
No additional information available		
2.4. Unknown acute toxicity (GHS-US)		
No data available		
SECTION 3: Composition/information	on ingredients	
3.1. Substance		
Substance type	: Multi-constituent	
Name	: EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE	

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CAS No : 102782-97-8			
Name	Product identifier	%	Classification (GHS-US)
Epoxypropoxypropyl terminated polydimethylsiloxane	(CAS No) 102782-97-8	> 95	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2	< 3	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2B, H320

3.2. Mixture

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.	
First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.	
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.	
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.	
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Get medical advice/attention.	
4.2. Most important symptoms and effect	cts, both acute and delayed	
Symptoms/injuries after inhalation	: No information available.	
Symptoms/injuries after skin contact	: Causes skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	
Symptoms/injuries after ingestion	: No information available.	
4.3. Indication of any immediate medica	I attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.	
Unsuitable extinguishing media	: None known.	
5.2. Special hazards arising from the su	bstance or mixture	
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.	
SECTION 6: Accidental release mea	sures	
	uipment and emergency procedures	
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notif	y authorities if liquid enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.	
6.4. Reference to other sections		
See Heading 8. Exposure controls and personal	protection.	

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Keep container tightly closed. Store in a cool area. Store in a dark area.
Incompatible materials	: Oxidizing agent.
Storage area	: Store in a well-ventilated place. Store away from heat.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	rsonal protection
8.1. Control parameters No additional information available	
8.2. Exposure controls	Dec Martin de la decentra de contra de la construcción de la construcción de la construcción de la construcción
Appropriate engineering controls	: Provide local exhaust or general room ventilation.
Personal protective equipment	: Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should available in the immediate vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubber gloves.
Eye protection	: Chemical goggles. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is
	recommended. NIOSH-certified organic vapor (black cartridge) respirator.
SECTION 9: Physical and chemica	Inconerties
Physical state	: Liquid
Appearance	: Clear liquid.
Molecular mass	: 1000 - 1400 g/mol
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.417
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: < -60 °C
Freezing point	: No data available
Boiling point	: > 205 °C
Flash point	: >110 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.98
VOC content	: <3%
Solubility	: Insoluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 20 - 35 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	· No data available

Explosive limits

: No data available

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9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions No additional information available	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Oxidizing agent.	
10.6. Hazardous decomposition products Organic acid vapors. Silicon dioxide.	
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SECTION 11: Toxicological information	on
11.1. Information on toxicological effects Acute toxicity	: Not classified
-	
Octamethylcyclotetrasiloxane (556-67-2)	1540 mg/kg
LD50 dermal rat	1770 mg/kg
LD50 dermal rabbit	794 µl/kg
LC50 inhalation rat (mg/l)	36 g/m³ (Exposure time: 4 h)
ATE US (oral)	1540.000 mg/kg body weight
ATE US (dermal)	1770.000 mg/kg body weight
ATE US (vapors) ATE US (dust, mist)	36.000 mg/l/4h 36.000 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: No information available.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact Symptoms/injuries after ingestion	: Causes serious eye irritation. : No information available.
Reason for classification	: Expert judgment
SECTION 12: Ecological information	
12.1. Toxicity	
Octamethylcyclotetrasiloxane (556-67-2)	
LC50 fish 1	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
LC50 fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
12.2. Persistence and degradability	
Octamethylcyclotetrasiloxane (556-67-2)	May agues long term advarse effects in the anvironment
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
Octamethylcyclotetrasiloxane (556-67-2)	40400
BCF fish 1	12400
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Octamethylcyclotetrasiloxane (556-67-2)		
Log Pow 5.1		
12.4. Mobility in soil		
No additional information available		
12.5. Other adverse effects		
,	additional information available	
Effect on the global warming : No	known ecological damage caused by this product.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste disposal recommendations : Inc	inerate. Dispose in a safe manner in accordance with local/national regulations.	
Ecology - waste materials : Ave	oid release to the environment.	
SECTION 14: Transport information		
14.1. UN number		
Not regulated for transport.		
14.2. UN proper shipping name		
Not applicable		
14.3. Additional information		
	supplementary information available.	
Transport by see		
Transport by sea No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
Epoxypropoxypropyl terminated polydimethylsilo	kane (102782-97-8)	
Listed on the United States TSCA (Toxic Substances	Control Act) inventory	
Octamethylcyclotetrasiloxane (556-67-2)		
Listed on the United States TSCA (Toxic Substances		
	T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
15.2. International regulations		
Epoxypropoxypropyl terminated polydimethylsilo	kane (102782-97-8)	
Listed on the AICS (Australian Inventory of Chemical		
Listed on the Canadian NDSL (Non-Domestic Substan		
Listed on IECSC (Inventory of Existing Chemical Subs Listed on the Japanese ENCS (Existing & New Chem		
Octamethylcyclotetrasiloxane (556-67-2)		
Listed on the AICS (Australian Inventory of Chemical		
Listed on the Canadian DSL (Domestic Sustances Lis Listed on IECSC (Inventory of Existing Chemical Subs		
Listed on the EEC inventory EINECS (European Inver		
Listed on the Japanese ENCS (Existing & New Chem		
Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals)		
Listed on PICCS (Philippines Inventory of Chemicals		
15.3. US State regulations		
EPOXYPROPOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE(102782-97-8)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive	No	
Toxicity - Female		

Toxicity - Male

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Epoxypropoxypropyl term	inated polydimethylsiloxan	e (102782-97-8)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	
Octamethylcyclotetrasilox	ane (556-67-2)	1	- I	
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	
Octamethylcyclotetrasilox	ane (556-67-2)			
	ls of High Concern ls of High Concern - Persister istent Pollutant - Tier I - Persi ning Levels - Long Term			

SECTION 16: Other information

Concentr millimete threshold Health; I/ Program Registrat Europear	tions: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal ation; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: rs Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: I limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and ARC: International Agency for Research on Cancer; NTP: National Toxicology HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service ion Number; EC No.: European Commission Registration Number; EC Index No.: n Commission Index Number; OECD: The Organisation for Economic Co-operation elopment.
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation

HMIS III Rating

Health Flammability : 2 Moderate Hazard - Temporary or minor injury may occur

: 1 Slight Hazard

Physical

: 0 Minimal Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Safety Data Sheet

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